

**CALIFONE®**



# 2455AV-02

**Performer Plus™**

**CD, CD-R and CD-RW Compatible**

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**Owner's Manual**

**califone.com**

**COMPACT**  
**disc**  
**DIGITAL AUDIO**



# Performer Plus™ Owner's Manual

Thank you for choosing the Performer Plus Media Player.

I encourage you to visit our website ([www.califone.com](http://www.califone.com)) to register your product for its warranty and learn more about the complete line of Califone portable audio equipment, headphones, computer peripheral and language learning materials.

Sincerely,

Roscoe Anthony  
President, Califone® International, Inc.

## Warranty Registration

Please visit [www.califone.com](http://www.califone.com) to register your Performer Plus™ Media Player for warranty coverage. This media player is built to the same standards as the rest of our products which teachers rely on day in and day out. Califone warrants this player to be free from defective material and workmanship for one year from the purchase date. Our "Project Intercept" Customer Satisfaction program will replace defective parts and repair malfunctioning products under this warranty when the defect occurs under normal installation and use, provided the unit is returned to our factory via prepaid transportation only after the factory issues an RA (Return Authorization) number which must be clearly written on the outside of the box.

## Unpacking your Performer Plus™

Inspection and inventory of your system. Check unit carefully for damage that may have occurred during transit. Each DVD110 product is carefully inspected at the factory and packed in a special carton for safe transport.

## All Damage Claims Must Be Made With The Freight Carrier

Notify the freight carrier immediately if you observe any damage the shipping carton or product. Repack the unit in the carton and await inspection by the carrier's claim agent. Notify your dealer of the pending freight claim.

## Returning your unit for service or repairs

Should your unit require service, contact your dealer or our Customer Service Department at (800) 722-0500 to obtain a Return Authorization (RA) number. All shipments to Califone must include an RA number on the carton and must shipped prepaid. C.O.D. shipments will be refused and returned at your cost.

## Contents

- a) Performer Plus™
- b) RC-2300 Remote Control
- c) This Instruction Manual
- d) Project Intercept Tag

# Initial Setup

## AC Line Operation

1. The power cord is located at the rear of the unit. Release the cord retainer tab and uncoil the cord.
2. Plug the cord into a standard 120 volt 50-60 Hz AC outlet. Be sure the plug blades are fully inserted.  
THE UNIT IS ON WHEN PLUGGED IN.

## Battery Operation

1. The battery compartment is located at the rear of the unit. Push the lever at the center of the door toward the rear of the unit, then lift the door free.
2. Eight "D" size batteries are required. Refer to the orientation diagram shown inside the battery compartment when installing. Place the batteries on top of the nylon ribbon to help "pop" out the old batteries when you need to replace them.
3. Replace the battery cover.

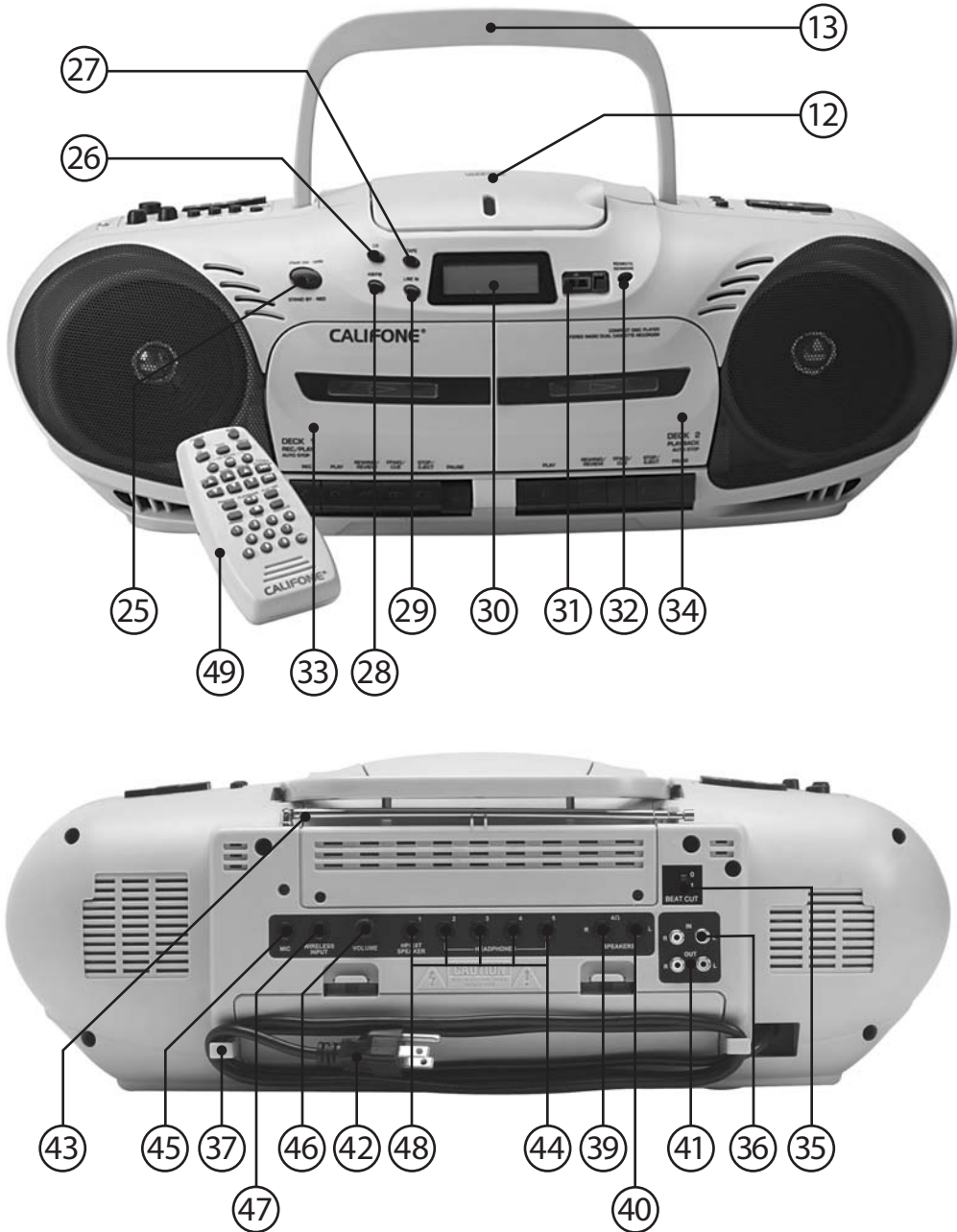
## IMPORTANT:

Remove all batteries from your cassette unit if it will not be used for an extended period of time.  
DO NOT USE RECHARGEABLE BATTERIES AND DO NOT LEAVE DISCHARGED BATTERIES IN THE BATTERY COMPARTMENT.

## NOTE:

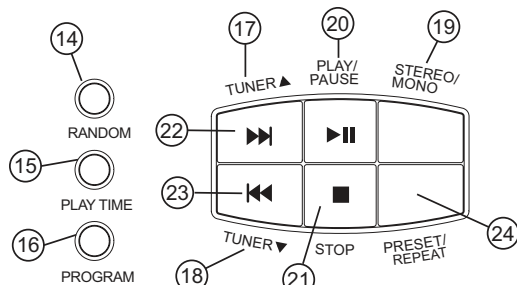
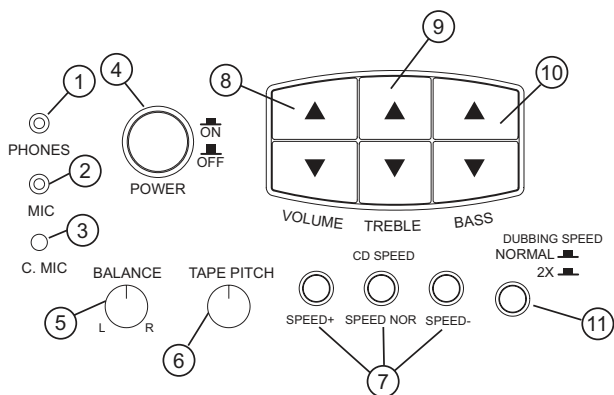
Califone cassette player/recorders are designed for use only with 60 minute Type 1 Normal Bias recording tape.

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## Top View Detail



1. Headphone Jack, 3.5 mm
2. Microphone Jack, 3.5 mm
3. Internal Condenser Mic
4. Power Switch
5. Balance Control
6. Tape Pitch
7. CD Speed: +, Normal, - (15%)
8. Volume Control
9. Treble Control
10. Bass Control
11. Dubbing Speed, Normal, 2X
12. CD Compartment
13. Carrying Handle
14. Random Play
15. Play Time
16. Program
17. Tuner Up
18. Tuner Down
19. Stereo/Mono
20. Play/Pause
21. Stop
22. Skip/Scan Forward
23. Skip/Scan Back
24. Preset/Repeat
25. Power On/Standby Switch

26. CD
27. Tape
28. Tuner, AM/FM/FM Stereo
29. Line In
30. LCD Display
31. 2X Tape Counter
32. Remote Control Sensor
33. Tape Deck 1, Record/Play
34. Tape Deck 2, Play
35. Beat Cut Switch
36. Line In Jacks, R/L Channels
37. Cord Wrap
38. Battery Compartment
39. Right Channel Speaker Jack
40. Left Channel Speaker Jack
41. Line Out Jacks, R/L Channels
42. AC Power Cord
43. Telescopic Antenna
44. Headphone Jacks (Five 1/4")
45. Voice-Over Mic Jack
46. Voice-Over Mic Volume
47. Wireless Receiver Input Jack
48. Headphone/External Speaker Jack
49. Remote Control

# Getting Started

The LED display will be in red (for standby mode) when the 'Power' button is pushed. Pushing the LED will cause the LED to be green indicating the unit is fully powered up.

- Depressing the 'Tape' button will cause the LCD display to show 'Tape'.
- Depressing the 'AM/FM' button will cause the LCD display to show 'AM' or 'FM'.
- Depressing the 'CD' button will cause the LCD display to show 'Disc'.

## Digital Volume Control

- The volume control is preset to automatically turn on at volume level "26" upon power up. Press 'VOL ▼' to reduce the volume, the level will be shown in the LCD panel. Minimum volume will show '00' on the LCD display.
- Press 'VOL ▲' to increase the volume. The maximum volume is '40' on the LCD display.

### Electronic Volume Control Display



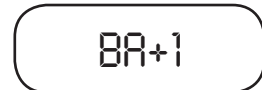
## Treble and Bass Controls

'TREBLE▲' and 'TREBLE▼' can be used to adjust the Treble up and down respectively, while 'BASS▲' and 'BASS▼' can be used to adjust the Bass up and down respectively. Both Treble and Bass can be adjusted in the range of +5 to -5.

### Treble



### Bass



## PLL Radio Function

- Press 'AM/FM' to select the desired reception band. Extend the telescoping antenna for FM. There is a built-in antenna for AM reception. For FM stereo reception the 'stereo' will show on the LCD display.
- Press the 'TUNER▲' or 'TUNER▼' button repeatedly until the desired station shows on the LCD display.
- To automatically scan through the frequency bands, hold the 'TUNER' button down until you see the speed of the LCD display increase. Scanning will stop when a strong signal is detected.

### AM Band Selection



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# Getting Started *continued*

## Programming Stations

20 FM stations and 12 AM stations can be saved in memory with the 'PRESET' function.

- Select a station to be saved in memory and press the 'PROGRAM' button to see ' \_ \_ ' appear on the LCD display.

### Memory Display



- Press 'PRESET' key to choose the desired channel (e.g. channel 1) then press 'PROGRAM' again to save.

### Choose Channel 1



- Select another station and press 'PROGRAM' again, then press 'PRESET' to select channel 2. Press 'PROGRAM' again to save.

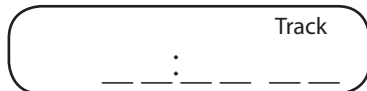
Press the 'PRESET' button to access preset stations until the desired channel is found.

## CD Function

The 2455AV-02 CD player accepts both 12 cm and 8 cm discs and will read CD, CD-R and CD-RW formats.

- Before opening the CD door, the LCD will show dashed lines. Open the CD door and the LCD display will show 'Open'. Insert a CD and push door closed and the LCD will display the number of tracks and total play time of the disc.

### Reading TOC

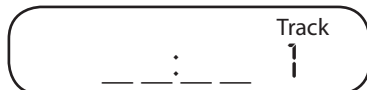


### After Reading TOC



- Press the 'PLAY/PAUSE' button to play the CD and the LCD display will flash while reading the disc. Then it will show track 1 and the elapsed playing time.

### Searching Track 1



### Playing Track 1



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## Getting Started *continued*

- To Pause press the 'PLAY/PAUSE' button while the disc is playing, the playing time will flash. Pressing the 'PLAY/PAUSE' button again will start the disc again from where it paused.
- To select a track to play press the 'SKIP FORWARD ►►|' or 'SKIP BACK |◄◄' button either from 'Stop' or 'Pause'. Each press will change the track number by one.

If the CD is playing, pushing and holding the 'SKIP ►►|' button will advance through the current track until it is over, then proceed to advance through the next track as long as the button is held down. Conversely, pushing and holding the 'SKIP |◄◄' button will scan in the reverse direction through the track currently playing and continue through previous tracks as long as the button is held down.

- To stop playing the disc, press the 'STOP' button.

### Repeat Playing

- To repeat one track, press the 'REPEAT' button one time either while playing or in pause.

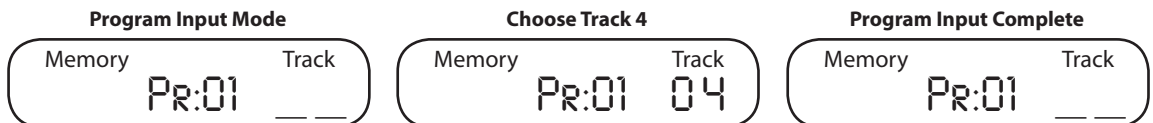
#### One Track Repeat (Flashing)



- To replay all tracks, press the 'REPEAT' button a second time either while playing or in pause.
- A third press of the 'REPEAT' button will cancel the repeat command.

### Memory Programming. Up to 20 tracks can be programmed.

With the CD stopped press the 'PROGRAM' button one time. Select a track to play by pushing the 'Skip Forward' ►►| or 'Skip Back' |◄◄ button. Push the 'PROGRAM' button again to enter another track to save in memory. When finished, press the 'PLAY/PAUSE' button to start the program. Pressing 'STOP' at any time exits the Program function. Note: When the CD door is opened all programming is cleared.



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# Getting Started *continued*

## Random Play Function

Pressing the 'RANDOM' button during CD play or stop condition will engage random play. Pressing again will cancel the function.

Note: If the CD has memory programmed, the random function cannot operate until the program is cleared.

## Play Time Mode

Pressing the 'PLAY TIME' button changes the time format on the LCD from elapsed time of each track to the total time remaining on the CD.

## Dual Cassette Operation

The 2455AV-02 features dual cassette decks for playback, continuous playback (Deck 2 to Deck 1) and recording from tape, radio, microphone or CD on Deck 1 only.

## Loading a Tape

To load a cassette tape, press the 'STOP/EJECT' button on Deck 1 or on Deck 2 to open the cassette door. Insert tape with playing side label facing you. Close the cassette door to lock the tape in position. Note: While Deck 1 is in playback mode, Deck 2 must be stopped and not in 'PLAY' or 'PAUSE' mode for Deck 1 to playback.

## Tape Playback

To play a loaded cassette tape:

1. Set 'FUNCTION' button to 'TAPE'
2. Press 'PLAY' Deck 1 or 2.
3. Adjust 'VOLUME'
4. Adjust 'TREBLE' and 'BASS' controls.

## To Stop Playback

Press the 'STOP/EJECT' key.

## To Pause Playback

Press the 'PAUSE' key all the way down to lock. To resume play, press the 'PAUSE' key again, and release.

## To Fast Wind/Rewind

Press the 'REWIND' or 'FAST-FORWARD' key. Press the 'STOP/EJECT' key to stop winding at the desired position.

During regular play, or recording, the tape will stop automatically when its end is reached.

## OTHER FEATURES AND FUNCTIONS

### Headphone Jacks

Six jacks are provided. One 3.5 mm jack on top and five 1/4" phone jacks on the rear of the cabinet.

### Extension Speaker Jacks

Optional stereo extension speakers (SP-2400 Blaster Buddies) can be plugged into the 1/4" L (left) and R (right) speaker jacks on the rear of the cabinet.

# Getting Started *continued*

**NOTE: THE INTERNAL SPEAKERS ARE DISABLED WHEN EXTENSION SPEAKERS ARE PLUGGED IN**

## Microphone Jack

To record using a dynamic microphone, plug into the 3.5 mm jack (29) on the rear of the cabinet. A 2.5 mm jack is also provided for use with Califone model 4805AV microphone with remote Start/Stop.

**Remote Sensor** A sensor is built into the 2455AV-02 for use with the RC-2400 remote control.

## RC-2400 Remote Control

- The RC 2400 operates most functions available on the boombox controls. It does not, however, function with some of the tape operations.

**INTRO** One feature added to the remote is the Intro function. This feature will give a preview of each track for 10 seconds. Press the 'PLAY' button while in the CD mode, then press the 'INTRO' button. Press the 'INTRO' button again to resume normal play. If the 'INTRO' button is not pushed a second time, the preview will continue through the last track. Pushing 'PLAY', 'PAUSE' or 'STOP' will not disengage the Intro function.

**MUTE** Mute is another feature added to the remote. It works with tape, AM/FM and CD functions.

**10+** This button allows you to jump forward a number of tracks rather than use the scan forward feature. From stop, pause or play, pushing the 10+ button once will show a 1 and a flashing –(dash) see 1-. To jump to track 15 enter 5. To go to track 23 from track 6 press 10+ twice and see 2-. Enter 3 and jump to track 23.

## Other Notes

- The 'SCAN/SKIP' buttons are the same as the 'Tuner ▲', 'Skip forward ►►]' and 'Tuner ▼', 'Skip back |◀◀' buttons on the boombox.
- The 'REPEAT' button is the same as the 'PRESET/REPEAT' button on the boombox.
- The 'TIME' button is the same as the 'PLAY TIME' button on the boombox.

## Continuous Play (Deck 1 to Deck 2)

1. Set the 'FUNCTION' selector to 'TAPE'.
2. Load prerecorded cassettes into Deck 1 and Deck 2.
3. Press the 'PLAY' button on Deck 2.
4. Press the 'PAUSE' and 'PLAY' buttons on Deck 1.
5. Adjust the 'VOLUME' and 'TONE' controls.
6. When the tape in Deck 2 reaches its end, it will automatically stop and the tape in Deck 1 will begin playing automatically.

## To Record from Microphone, Tape, Radio or CD

This unit has an ALC (Automatic Level Control) circuit and no further adjustment of the Volume control is necessary while recording. Set the 'FUNCTION' Selector to: 'TAPE' to record from microphone. Plug mic into AM/FM jack to record from radio or into CD jack to record from CD.

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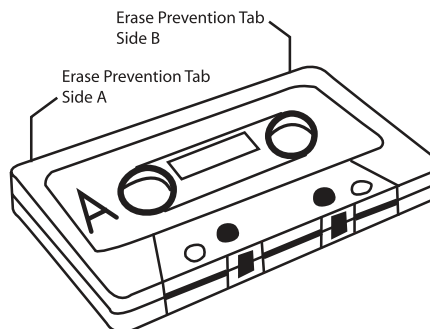
## Getting Started *continued*

1. Insert a blank tape into cassette Deck 1.
2. Press the 'PAUSE' button then the 'RECORD' button on Deck 1 to prepare for recording. As the 'RECORD' button is pressed the 'PLAY' button will follow.
3. Press 'PAUSE' again to start recording.

### Dubbing (Recording from Tape 2 to Tape 1)

1. Insert a blank tape into cassette Deck 1, and the source or prerecorded tape into Deck 2.
2. Press the 'PAUSE' button then the 'RECORD' button on Deck 1 to prepare for recording. As the 'RECORD' key is pressed the 'PLAY' button will follow.
3. Press the 'PLAY' button on Deck 2, the 'PAUSE' button on Deck 1 will release automatically and recording will begin.

**Note:** Every new cassette tape has erase prevention tabs. Commercially prerecorded tapes have the tabs removed to prevent recording over the original material or accidental erasure. Cover the openings with adhesive tape if you wish to record over such cassette tape.



**To Stop Recording** Press the 'STOP/EJECT' button on Deck 2 or press the 'PAUSE' key on Deck 1 to momentarily stop recording.

### Cueing with the Tape 1 Counter

Rewind the tape to the beginning. Press the 'RESET' button to reset the counter to (000). Use the Tape 1 Counter Display to note precise points on an audio tape during playback and to cue the tape to those precise points using the 'FAST FORWARD', 'CUE', or 'REWIND/REVIEW' buttons.

### Compact Disc Player Operation

The 2455AV-02 Programmable Compact Disc Player plays both 12cm and 8cm CDs, CD-R, CD-RW without requiring an adapter. Up to 20 tracks can be programmed for play.

#### Loading a Compact Disc

1. Lift to open the CD door and see "OPEN" on the LCD display.
2. Place a CD in compartment with label side up.
3. Press the CD door down to close.

#### Compact Disc Play

To play a loaded CD:

1. Turn power ON.
2. Set the 'FUNCTION' Selector to CD.
3. The LCD will show the number of tracks and playing time.
4. Press the 'PLAY/PAUSE' button.

The CD Display will show the current track and playing time.

#### To pause a playing CD

Press the 'PLAY/PAUSE' button again. The pause indicator "II" will appear on the display. Press 'PLAY/PAUSE' again to resume play.

## Getting Started *continued*

### To stop a playing CD

Press the 'STOP' button. The display shows, "—".

**Note:** When you press 'PLAY' again the player will return to the first track. The display will show "00" and then "01".

### To skip forward or backward from track to track during playback

Press the 'SKIP ►►' button once and the next track will be displayed and begin playing. Press repeatedly to move forward to the desired track.

Press the 'SKIP ◀◀' button once to return to the beginning of the current track. Press repeatedly to skip back to earlier tracks. Playback resumes from the selected track.

### To search forward or backward to a particular point on a track during playback

Up to 20 tracks can be programmed for playback. To program a song sequence:

1. Press STOP first if the CD is playing.
2. Press the 'PROGRAM' button. The CD display will show P:01
3. Press the 'SKIP ►►' and or 'SKIP ◀◀' buttons to select the first track to program.
4. Once the desired track is reached, press the 'PROGRAM' button to enter the track number into memory.
5. Repeat steps 3 & 4 to program additional tracks.
6. Press the 'PLAY/PAUSE' button to start programmed playback.

**Note:** The program will be erased when you press the 'PROGRAM' button.

### Repeat CD Selections

Repeat one or all programmed selections using the 'REPEAT' button. Push the button once to replay any single selection. Push the button twice to replay all programmed selections (in programmed order). Push the button three times to clear the 'REPEAT' function. "REPEAT ONE" or "REPEAT ALL" will appear on the display when the 'REPEAT' button is pushed.

### AM/FM Radio Operation

The 2455AV-02 features a AM/FM PLL (phase locked loop) stereo radio and telescopic antenna for local AM and FM stereo reception. To operate the radio:

1. Plug the unit in.
2. Set the 'FUNCTION' selector to Radio.
3. Extend the telescope antenna.
4. Select AM, FM or FM Stereo reception band.
5. Use the Tuning buttons to select the desired station.
6. Adjust antenna for best reception.

**Note:** The FM "stereo" indicator light will appear on the LED display when an FM stereo station is tuned in.

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# Getting Started *continued*

## Care and Handling of Compact Discs

1. Handle the disc by its edges or center hole. To keep the disc clean, avoid touching the data surface.
2. Data is embedded directly beneath the label, protected only by a thin lacquer layer and is more vulnerable to damage than the bottom. A scratch that penetrates the label will certainly destroy data, whereas a scratch on the bottom can often be overlooked or corrected by the laser pickup.
3. Do not write on the label surface. A ballpoint will damage data; marking pens have solvents that may penetrate the top layer.
4. Do not stick paper or tape on the label surface; this probably won't hurt the disc but might jam the disc drive.
5. Do not expose a disc to high temperature or humidity for an extended period of time. The disc material will soften at around 200 degrees Fahrenheit. Allow the disc to reach room temperature before playing if it has been subjected to extreme cold.
6. Preventive cleaning is unnecessary and potentially harmful. Clean only when required.
7. Clean a disc with a soft moistened cloth. Pat dry. Wipe the disc from the center out like spokes of a wheel. Never wipe across a disc as you would an LP record.
8. Never use solvents, commercial cleaners or sprays designed for LP's. Plain lukewarm water is recommended.
9. Keep discs protected at all times.

## Cassette Maintenance & Service Cleaning

The heads, capstan and pinch roller should be cleaned from time to time to prevent buildup of tape oxide, which degrades performance.

1. Remove cassette tape before cleaning.
2. Clean the head of all visible, reddish-brown oxide with a cotton-tipped swab moistened with a methyl alcohol or any solution specifically manufactured for this purpose.

**Caution:** DO NOT scrape the head surface with hard, sharp or abrasive objects. This will permanently damage the heads.

3. Clean the pinch roller by scrubbing the surface of the roller with the moistened swab. Rotate the roller by hand until the entire surface is clean.
4. Clean external case surfaces with a moist, soft cloth. Use only a mild detergent water solution.

## Head Demagnetization

It is recommended that the tape heads be demagnetized from time to time. This eliminates residual magnetism which degrades sound reproduction and the recording function.

1. After cleaning the heads and capstan, place the demagnetizer several feet away from the cassette unit and plug it into an AC outlet.
2. Follow the manufacturer's operating instructions supplied with the demagnetizer.

## Project Intercept

Please contact us immediately if you experience any difficulties with your Califone product. Our Project Intercept customer service program will repair or replace warranted items. Contact us via phone 1-800-722-0500 or email [warranty@califone.com](mailto:warranty@califone.com).

# Specifications

## Headphone Jacks:

Output Power	14 Watts
Radio Frequency Range	AM 525-1710KHZ
FM 88 – 108 MHz	
Cassette Frequency Response	80Hz – 12000Hz
CD Frequency Response	20Hz – 20000Hz
Power Supply	AC 110V – 60Hz, 8"D" (UM-1) Cells
Dimensions (WxHxD)	22"W x 8"H x 8.5"D
Weight	11 lbs.

# Troubleshooting

## Problems

### General

The unit does not operate.

### Cassette

Cassette cannot be loaded.

The tape does not move.

The tape gets caught in the tape transport mechanism.

Tape speed is slow.

Tape running is unstable.

There is excessive noise, the sound quivers or there are breaks in the sound.

### Recording

The RECORD key cannot be depressed.

Recording cannot be done.

The previous recording cannot be erased.

No sound output.

## Items To Check

Is the AC power cord unplugged?

Are the batteries fully charged?

Is cassette being loaded properly?

Is the PLAY key depressed?

Is the PAUSE key depressed?

Is the pinch roller or capstan dirty?

Is there excessive slack in the tape?

Is the tape too old or the quality bad?

Is there excessive slack in the tape?

Are the tape heads dirty?

Is a cassette loaded? Is the cassette's erasure prevention tab broken off?

Are the heads dirty?

Is the erasure head dirty?

Is the tape type other than type 1 normal bias?

Is the master volume turned up?

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# Troubleshooting

## CD

CD play does not begin.

Is the AC power cord unplugged or loose?

Is the CD upside down?

Is the CD or lens excessively dirty?

Is the disc holder closed properly?

Is the PAUSE mode on?

Is the FUNCTION switch on CD mode?

The CD produces no sound.

Is there condensation inside the unit? If so, let stand for 1-2 hours until dry.

The CD sound jumps.

Is the lens or CD excessively dirty?

Is the unit subjected to excessive vibration?

Are there any bad scratches on the CD?

CD stops immediately.

Is CD loaded upside down?

Is CD not set properly in tray?

Is CD excessively dirty?

CD takes too long to start

Press STOP and PLAY/PAUSE again, repeat if necessary.

## AM/FM Radio

No sound or signal

Is FUNCTION Selector set to Radio?

Is Band Selector set properly?

Signal is unclear.



Is telescoping antenna fully extended and properly positioned for best reception?


FM Stereo reception is unclear.

Tune Radio so FM Stereo LED is lit. Adjust antenna if necessary.

Make sure to register your product for warranty coverage. Visit [califone.com](http://califone.com)

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK - DO NOT OPEN	
<b>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.</b>		

 <p><b>The lightning flash with arrowhead within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.</b></p>	 <p><b>The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.</b></p>
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	<p>This product is not designed to function normally in strong electromagnetic fields. Consequently, the audio quality may degrade while the product is exposed to strong electromagnetic fields. Normal audio quality operation will be recovered when the strong electromagnetic field is no longer present.</p>
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<p><b>WARNING:</b> TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, SO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.</p>
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	<p>Ce produit n'est pas conçu pour un fonctionnement dans de forts champs électromagnétiques. Par conséquent, la qualité sonore peut diminuer si ce produit est exposé à un fort champ électromagnétique. La qualité sonore redeviendra normale après affaiblissement du champ électromagnétique.</p>
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## IMPORTANT SAFETY INSTRUCTIONS

**ATTENTION:** ALL SAFETY AND OPERATING INSTRUCTIONS SHOULD BE READ BEFORE OPERATING APPLIANCE. ALL OPERATING AND USE INSTRUCTIONS SHOULD BE FOLLOWED WHEN OPERATING THE APPLIANCE. HEED AND ADHERE TO ALL WARNINGS ON THE APPLIANCE AND IN THE OPERATING INSTRUCTIONS. RETAIN ALL SAFETY AND OPERATING INSTRUCTIONS FOR FUTURE REFERENCE.

**WATER & MOISTURE** - DO NOT USE THE APPLIANCE NEAR WATER; IE. BATHTUB, WASHBOWL, KITCHEN SINK, LAUNDRY TUB, WET BASEMENT OR SWIMMING POOL.

**VENTILATION** - DO NOT SITUATE THE APPLIANCE SO THAT ITS LOCATION OR POSITION INTERFERES WITH ITS PROPER VENTILATION. FOR EXAMPLE, THE APPLIANCE SHOULD NOT BE SITUATED ON A BED, SOFA, RUG OR SIMILAR SURFACE THAT MAY BLOCK THE VENTILATION OPENINGS. THE APPLIANCE SHOULD NOT BE PLACED IN A BUILT-IN INSTALLATION, SUCH AS A BOOKCASE OR CABINET, THAT MAY IMPEDE THE FLOW OF AIR THROUGH THE VENTILATION OPENINGS.

**HEAT** - SITUATE THE APPLIANCE AWAY FROM HEAT SOURCES SUCH AS RADIATORS, HEAT REGISTERS, STOVES OR OTHER APPLIANCES (INCLUDING AMPLIFIERS) THAT PRODUCE HEAT.

**POWER SOURCES** - CONNECT THE APPLIANCE ONLY TO A POWER SUPPLY TYPE DESCRIBED IN THE OPERATING INSTRUCTIONS OR MARKED ON THE APPLIANCE.

**GROUNDING OR POLARIZATION** - PRECAUTIONS SHOULD BE TAKEN SO THAT THE GROUNDING OR POLARIZATION MEANS OF THE APPLIANCE ARE NOT DEFEATED.

**POWER CORD PROTECTION** - POWER SUPPLY CORDS SHOULD BE ROUTED SO THAT THEY ARE NOT LIKELY TO BE WALKED ON OR PINCHED BY ITEMS PLACED UPON OR AGAINST THEM, PAYING PARTICULAR ATTENTION TO CORDS AT PLUGS, CONVENIENCE RECEPTACLES, AND THE POINT WHERE THEY EXIT FROM THE APPLIANCE.

**CLEANING** - THE APPLIANCE SHOULD BE CLEANED ONLY AS RECOMMENDED BY THE MANUFACTURER.

**NON USE PERIODS** - UNPLUG THE APPLIANCE POWER CORD FROM THE OUTLET WHEN LEFT UNUSED FOR A LONG PERIOD OF TIME.

**OBJECT & LIQUID ENTRY** - CARE SHOULD BE TAKEN SO THAT OBJECTS DO NOT FALL AND LIQUIDS ARE NOT SPILLED INTO THE ENCLOSURE THROUGH OPENINGS.

**DAMAGE REQUIRING SERVICE** - THE APPLIANCE SHOULD BE SERVICED BY QUALIFIED SERVICE PERSONNEL WHEN: (A) THE POWER SUPPLY CORD OR THE PLUG HAS BEEN DAMAGED (B) OBJECTS HAVE FALLEN OR LIQUID HAS BEEN SPILLED INTO THE APPLIANCE (C) THE APPLIANCE HAS BEEN EXPOSED TO RAIN (D) THE APPLIANCE DOES NOT APPEAR TO BE OPERATING NORMALLY OR EXHIBITS A MARKED CHANGE IN PERFORMANCE (E) THE APPLIANCE HAS BEEN DROPPED OR THE ENCLOSURE DAMAGED.

**SERVICING** - THE USER SHOULD NOT ATTEMPT TO SERVICE THE APPLIANCE BEYOND THAT DESCRIBED IN THE OPERATING INSTRUCTIONS. ALL OTHER SERVICING REFER TO A QUALIFIED SERVICE PERSONNEL.



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